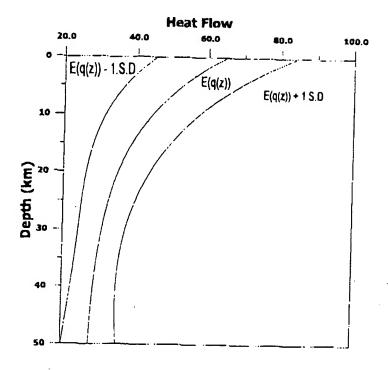
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**APPLICANTS** 

Fig 1

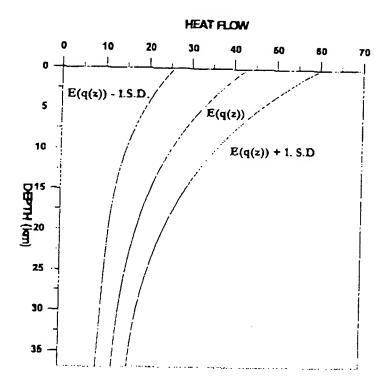
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**APPLICANTS** 

Fig 2

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## FLOW CHART OF THE PROCEDURE

GOVERNING STOCHASTIC
HEAT CONDUCTION EQUATION
WITH

RANDOM THERMAL CONDUCTIVITY AND AN EXPONENTIALLY DECREASING HEAT SOURCE

ASSOCIATED BOUNDARY CONDITIONS: SURFACE TEMEPRATURE AND SURFACE HEAT FLOW

STOCHASTIC SOLUTION TO THE TEMPERATURE FIELD OBTAINED USING A SERIES EXPANSION METHOD

OBTAIN THE EXPRESSION FOR MEAN HEAT FLOW AND VARIANCE IN HEAT FLOW

F14.3.

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